#### SPECIAL EXCEPTION AMENDMENT

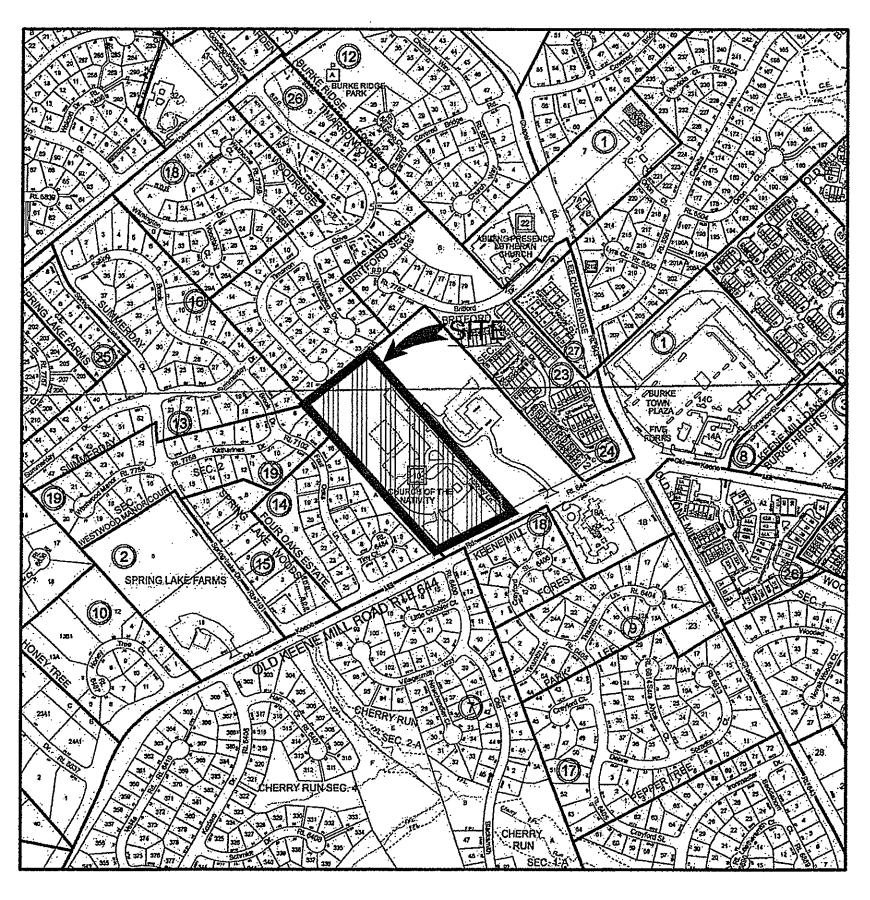
### CHURCH OF THE NATIVITY

SPRINGFIELD DISTRICT FAIRFAX COUNTY, VIRGINIA

#### PROPERTY IDENTIFICATION

LOCATION: TAX MAP #: 6398 NATIVITY LANE, SPRINGFIELD, VIRGINIA

088-1-((01))-0010 10.1814 ACRES



**VICINITY MAP** SCALE : 1" = 500'

#### APPLICANT / PROPERTY OWNER THE CATHOLIC DIOCESE OF ARLINGTON, VIRGINIA

200 N. GLEBE ROAD ARLINGTON, VIRGINIA 22203

**ENGINEER** BOWMAN CONSULTING GROUP, LTD.

> 9813 GODWIN DRIVE MANASSAS, VIRGINIA 20110 (703) 530-8093

#### **ARCHITECT**

BMK, pc

209 COMMERCE STREET ALEXANDRIA, VIRGINIA 22314

WALSH, COLUCCI, LUBELEY, EMRICH AND WALSH, PC

**ATTORNEY** 

COURTHOUSE PLAZA 2200 CLARENDON BOULEVARD, 13TH FLOOR ARLINGTON, VIRGINIA 22201

JAN 22 2010

APPROVED (SE) (SP) PLAN

SEE DEV CONDS DATED 1-27-2010
Date of (BOS) (BZA) APPROVAL 3-9-2010

#### SHEET INDEX

- 1. COVER SHEET
- 2. EXISTING VEGETATION MAP
- 3. SPECIAL EXCEPTION PLAT
- 4. SPECIAL EXCEPTION PLAT (20 SCALE)
- 5. STORMWATER MANAGEMENT & UTILITIES PLAN
- 6. LANDSCAPING PLAN

COVE

SEA 95-S-038-2 COUNTY PLAN NUMBER

SPG SPG/BIH RRS DESIGN DRAWN CHKD

SCALE: 1"=50" JOB No. 7362-01-001

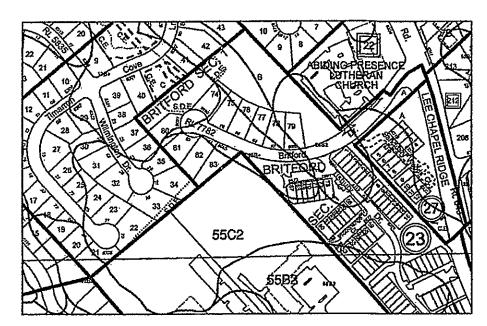
SHEET 1 OF 6

DATE DESCRIPTION

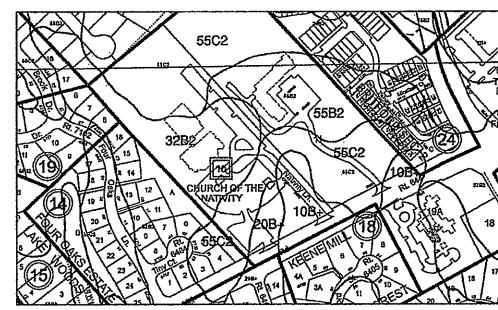
DATE: MAY 2009 FILE No. 7362-D-MP-00

#### FAIRFAX COUNTY SOILS MAP

SOURCE: FAIRFAX COUNTY SOILS SURVEY (1990)



NORTH SIDE OF PROPERTY



SOUTH SIDE OF PROPERTY

#### SOILS IDENTIFICATION

55C2 GLENELG 55B2 GLENELG 52B2 ELBERT-IREDELL

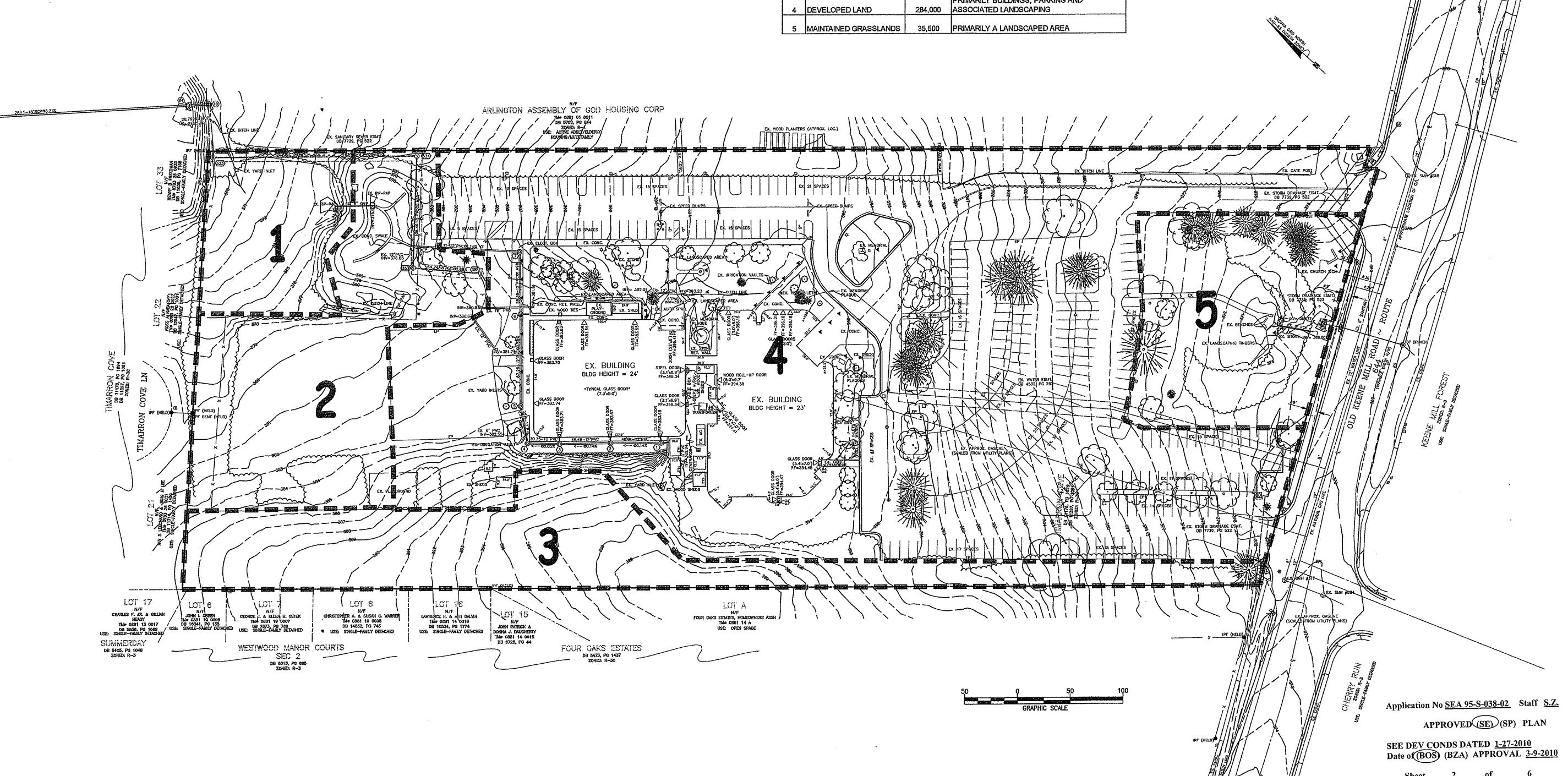
32B2 FAIRFAX 20B+ MEADOWVILLE 10B+ GLENVILLE

#### **NOTES**

- 1. THERE ARE NO WETLANDS, CHESAPEAKE BAY RESOURCE PROTECTION AREAS, ENVIRONMENTAL QUALITY CORRIDORS OR OTHER ENVIRONMENTALLY SENSITIVE AREAS ON THE SUBJECT SITE.
- 2. THERE ARE NO KNOWN CEMETERIES LOCATED ON THE SUBJECT SITE.
- 3. THE PROPERTY IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAINS. THE PROPERTY IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 515525-0075D; LAST REVISED MARCH 5, 1990.

#### **KEY TO MAP**

	FAIRFAX COL	INTY EXIS	STING VEGETATION MAP
PFM 12.0405, TABLE 12.2			
AREA	COVER TYPE	APPROX SF	NOTES
1	UPLAND FOREST	19,000	PRIMARILY OAK, MAPLE, TULIP POPLAR, SUB- CLIMAX FOREST COVER
2	MAINTAINED GRASSLANDS	58,000	2/3 OF THE AREA IS AN ATHLETIC FIELD BORDERED WITH A CYPRESS BUFFER, THE REST IS A FENCED SWM DRY POND
3	UPLAND FOREST	44,000	PRIMARILY OAK, MAPLE, TULIP POPLAR, SUB- CLIMAX FOREST COVER
4	DEVELOPED LAND	284,000	PRIMARILY BUILDINGS, PARKING AND ASSOCIATED LANDSCAPING
5	MAINTAINED GRASSLANDS	35,500	PRIMARILY A LANDSCAPED AREA



SEA 95-S-038-2 COUNTY PLAN NUMBER

05/29/09 QC SUBMISSION 06/30/09 1ST SUBMISSION 1/06/09 2ND SUBMISSION 12/03/09 3RD SUBMISSION DESCRIPTION SPG SPG/BIH RRS DESIGN DRAWN CHKD

SCALE: 1"=50" JOB No. 7362-01-001

DATE: MAY 2009 FILE No. 7362-D-MP-001

SHEET 2 OF 6

#### SITE TABULATIONS

088-1-((1))-0010 CURRENT BUILDING USAGE: TAX MAP #: 10.1814 ACRES CHURCH - NUMBER OF SEATS: SITE AREA R-1, RESIDENTIAL DISTRICT MAXIMUM SCHOOL ENROLLMENT ALLOWED: CURRENT ZONING: PRESCHOOL\* MAXIMUM FLOOR AREA RATIO: 0.15 KINDERGARTEN - 8TH GRADE TOTAL ALLOWED: MAXIMUM GROSS FLOOR AREA: 66,525 SF PROPOSED BUILDING USAGE: **EXISTING GROSS FLOOR AREA:** 17,840 SF CHURCH - NUMBER OF SEATS: 800 (NO CHANGE) CHURCH 450 (NO CHANGE) 29,956 SF TOTAL SCHOOL ENROLLMENT: SCHOOL TOTAL EXISTING: 47,796 SF PRESCHOOL\*\* \*NO MORE THAN 20 ENROLLEES ON SITE AT ANY ONE TIME. \*\*NO MORE THAN 40 ENROLLEES ON SITE AT ANY ONE TIME. PROPOSED ADDITIONS: 2,900 SF CHURCH 15.800 SF REQUIRED OUTDOOR RECREATION AREAS: SCHOOL 18,700 SF 100 SF PER CHILD USING RECREATION SPACE AT ANY ONE TIME TOTAL PROPOSED: MAXIMUM STUDENTS AT RECESS AT ANY ONE TIME: TOTAL PROPOSED GROSS FLOOR AREA: 66,496 SF MINIMUM REQUIRED RECREATION AREA: PROPOSED FLOOR AREA RATIO: PROVIDED OUTDOOR RECREATION AREAS: ASPHALTAREA: NOTE: RIGHT-OF-WAY DEDICATION TO BE INCLUDED IN F.A.R. CALCULATIONS OPEN SPACE AREA & PLAYGROUND: TOTAL OUTDOOR RECREATION AREAS: 30% 133,051 SF

75 FEET

10 STM TOP=367.54

OUT=362.11 (15"RCP To 94)

PARKING REQUIRED:

CHURCH USE:

SCHOOL USE:

NUMBER OF SEATS

STAFF MEMBERS

TOTAL PARKING REQUIRED:

TOTAL PARKING PROVIDED:

PARKING SPACES REQUIRED

PARKING SPACES REQUIRED

NOTE: ONE SPACE LOST AT TIME OF IMPROVEMENTS (BY OTHERS) TO OLD KEENE MILL ROAD

10-YEAR TREE CANOPY REQUIRED: 10-YEAR TREE CANOPY PROVIDED: 30% 134,000 SF 60 FEET MAXIMUM BUILDING HEIGHT: 35 FEET PROPOSED BUILDING HEIGHT: MINIMUM YARD REQUIREMENTS:

FRONT: 50° ANGLE OF BULK PLANE, MINIMUM OF 40 FEET SIDE: 45° ANGLE OF BULK PLANE, MINIMUM OF 20 FEET REAR: 45° ANGLE OF BULK PLANE, MINIMUM OF 25 FEET TRANSITIONAL SCREENING REQUIRED/PROVIDED: TO SINGLE-FAMILY DETACHED (SFD) 25 FEET 25 FEET

TO MULTIFAMILY

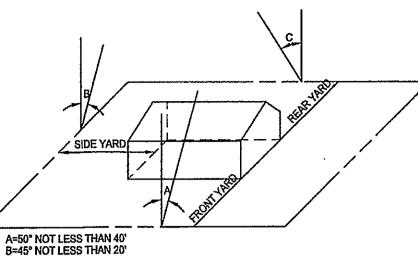
94 STM TOP=360.71

IN=358.25 (15"RCP Fr 10) OUT=357.09 (18"RCP To 92)

SUMMERDAY

FROM PLAYGROUND TO SFD

ANGLE OF BULK PLANE



8. THIS PLAT HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND THEREFORE NOT ALL EASEMENTS OR ENCUMBERANCES MAY BE SHOWN.

9. THE PROPERTY SHALL CONTINUE TO BE ACCESSED VIA OLD KEENE MILL ROAD (STATE ROUTE 644) USING TWO (2) EXISTING ENTRANCES.

10. THE SUBJECT PROPERTY IS SERVED BY PUBLIC WATER AND SANITARY SEWER. LOCATION OF UTILITIES SHOWN ARE APPROXIMATE BASED ON

11. THE SUBJECT PROPERTY CURRENTLY UTILIZES TWO (2) STORMWATER MANAGEMENT DETENTION PONDS. DURING REDEVELOPMENT OF THE REAR PARKING AREA ONE OF THESE STORM PONDS SHALL BE REMOVED AND REPLACED BY AN UNDERGROUND SYSTEM. THE UNDERGROUND SYSTEM HAS BEEN PRELIMINARILY SIZED AS SHOWN ON THIS PLAT. ALL STORMWATER MANAGEMENT AND BMP REQUIREMENTS. AS SPECIFIED IN THE PUBLIC FACILITIES MANUAL, SHALL BE MET DURING THE SITE PLAN REVIEW PROCESS.

12. THERE ARE NO WETLANDS, CHESAPEAKE BAY RESOURCE PROTECTION AREAS, ENVIRONMENTAL QUALITY CORRIDORS OR OTHER ENVIRONMENTALLY SENSITIVE AREAS ON THE SUBJECT SITE.

13, THERE ARE NO KNOWN CEMETERIES LOCATED ON THE SUBJECT SITE.

14. THE PROPERTY IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAINS. THE PROPERTY IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 515525-0075D; LAST REVISED MARCH 5, 1990.

15. NO ADDITIONAL VEHICLE TRIPS WILL BE GENERATED BY THE PROPOSED ADDITIONS TO THE SCHOOL OR CHURCH.

16. THIS PLAN IS SUBJECT TO MINOR REVISIONS DURING FINAL ENGINEERING AND THE SITE PLAN REVIEW PROCESS SUBJECT TO THE REQUIREMENTS OF THE PUBLIC FACILITIES MANUAL AND ALL OTHER COUNTY, STATE AND FEDERAL REQUIREMENTS. THE PROPOSED DEVELOPMENT CONFORMS TO THE PROVISIONS OF ALL APPLICABLE ORDINANCES, REGULATIONS AND ADOPTED

17. SITE IMPROVEMENTS MAY BE CONSTRUCTED IN PHASES.

STANDARDS OF FAIRFAX COUNTY, VIRGINIA.

SEA 95-S-038-2 COUNTY PLAN NUMBER

PLAN STATUS

5/29/09 QC SUBMISSION /30/09 1ST SUBMISSION 1/06/09 2ND SUBMISSION 2/03/09 3RD SUBMISSION

1/22/10 4TH SUBMISSION

DESCRIPTION

SPG/BIH

DESIGN DRAWN CHKD

JOB No. 7362-01-001

FILE No. 7362-D-MP-001

DATE: MAY 2009

SCALE: 1"=50'

PROPOSED FENCE

PROPOSED ADDITIONAL

Application No SEA 95-S-038-02 Staff S.Z.

SHEET 3 OF 6 SEE DEV CONDS DATED 1-27-2010



LIMITS OF CLEARING

SIGN DETAIL

LEX. CHURCH SEE SIGN DETAIL

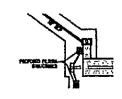
IMPROVEMENTS BY OTHERS.

THE EXISTING CHURCH SIGN CONSISTS OF TWO ATTACHED BRICK & MASONRY PANELS CONSTRUCTED IN AN "L" SHAPE. THE PANELS ARE 6 FEET HIGH BY 11 FEET LONG EACH. THE SIGN IS LIT BY TWO EXISTING GROUND MOUNTED FLOODLIGHTS. IF REQUIRED, SIGN TO BE RELOCATED AT TIME OF ROAD

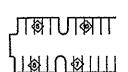
SCALE: 1"=20"

PROPOSED DUMPSTERS

PROPOSED CROSSWALK AND SIDEWALKS



PROPOSED SWM/BMP **FACILITIES** 



PARKING

APPROVED (SE) (SP) PLAN

MATCH EXISTING LAND RECORDS OF FAIRFAX COUNTY, VIRGINIA. 3. TOPOGRAPHY SHOWN IS FROM A FIELD-RUN SURVEY COMPLETED ON APRIL 13, 2009. VERTICAL DATUM SHOWN HEREON IS NAVD 88 AND IS BASED ON THE STATIC GPS SURVEY DESCRIBED ABOVE. THE CONTOUR INTERVAL IS ONE (1) 4. BEARINGS SHOWN IN PARATHENSIS ARE BASED ON THE NORTH OF RECORD AS DESCRIBED ABOVE. 5. THERE ARE NO KNOWN EXISTING UTILITY EASEMENTS LOCATED ON THE SUBJECT PROPERTY IN EXCESS OF TWENTY-FIVE (25) FEET IN WIDTH. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED ON RECORDS SUPPLIED TO BOWMAN C=45° NOT LESS THAN 25' CONSULTING GROUP AND THE FIELD LOCATION OF VISIBLE ABOVE GROUND EVIDENCE OF UTILITIES. BOWMAN CONSULTING GROUP DOES NOT EXPRESS OR IMPLY ANY GUARANTEE AS TO THE LOCATION, TYPE OR EXISTENCE OF ANY UNDERGROUND UTILITY. 6. THERE ARE NO KNOWN UNDERGROUND STORAGE TANKS. 7. THE EXISTING CHURCH WAS BUILT IN 1978 WITH THE SCHOOL BUILDING BEING BUILT IN 1990. ALL EXISTING STRUCTURES SHALL BE RETAINED.

1. CHURCHES AND ACCESSORY USES (SCHOOLS SPECIFICALLY) ARE PERMITTED

BY SECTION 9-301 (15) OF THE ZONING ORDINANCE WITH THE GRANTING OF A

SPECIAL EXCEPTION. THE SUBJECT SITE HAS BEEN PREVIOUSLY GRANTED A

SPECIAL EXCEPTION, SUBSEQUENTLY AMENDED, TO ALLOW SUCH A USE (SEA

95-S-038). THIS SPECIAL EXCEPTION AMENDMENT (SEA) PLAT HAS BEEN

PREPARED TO ALLOW FOR THE EXPANSION AND/OR MODIFICATION OF THE

EXISTING BUILDINGS, PARKING AREAS, AND PLAY AREAS. THE SUBJECT AREA

VIRGINIA STATE GRID NAD 83, NORTH ZONE, AND IS BASED ON A FIELD-RUN,

STATIC GPS SURVEY COMPLETED ON APRIL 13, 2009 BY BOWMAN CONSULTING

GROUP HOLDING NGS MONUMENTS HV GAIT, HV LOYB AND HV LWX1, HOLIDING

COMBINED SCALE FACTOR OF 0.9999,3909 WILL NEED TO BE APPLIED TO

PROJECT COORDINATES TO OBTAIN VIRGINIA STATE GRID COORDINATES AND

A COMMON CENTROID POINT OF N:6,968,109.105 AND E:11,830,884.451. THE

2. BOUNDARY AND NORTH MERIDIAN INFORMATION AS SHOWN HEREON IS

OF THE SEA IS NOT BEING ENLARGED OR MODIFIED.

EX. BUILDING BLDG HEIGHT = 24' RECREATION AREA \*TYPICAL GLASS DOOR\* (7.3'x8.0') (±6,800 SF)

20 1176, 80 1137, 80 20 1137, PLAY AREA (±38,000 SF - INCLUDES PROPOSED EXTENDED PLAY

CHRISTOPHER A. & SUSAN C. WARREN THE 0881 19 0008 DB 14832, PC 745 WESTWOOD MANOR COURTS

SEC 2 DB 6013, PG 685 ZONED: R-3

FOUR OAKS ESTATES
D8 5473, PG 1437
ZONED: R-3G

20,000 SF

6.800 SF

38,000 SF

200 (1 SPACE / 4 SEATS)

39 (1 SPACE PER STAFF + 4 VISITOR)

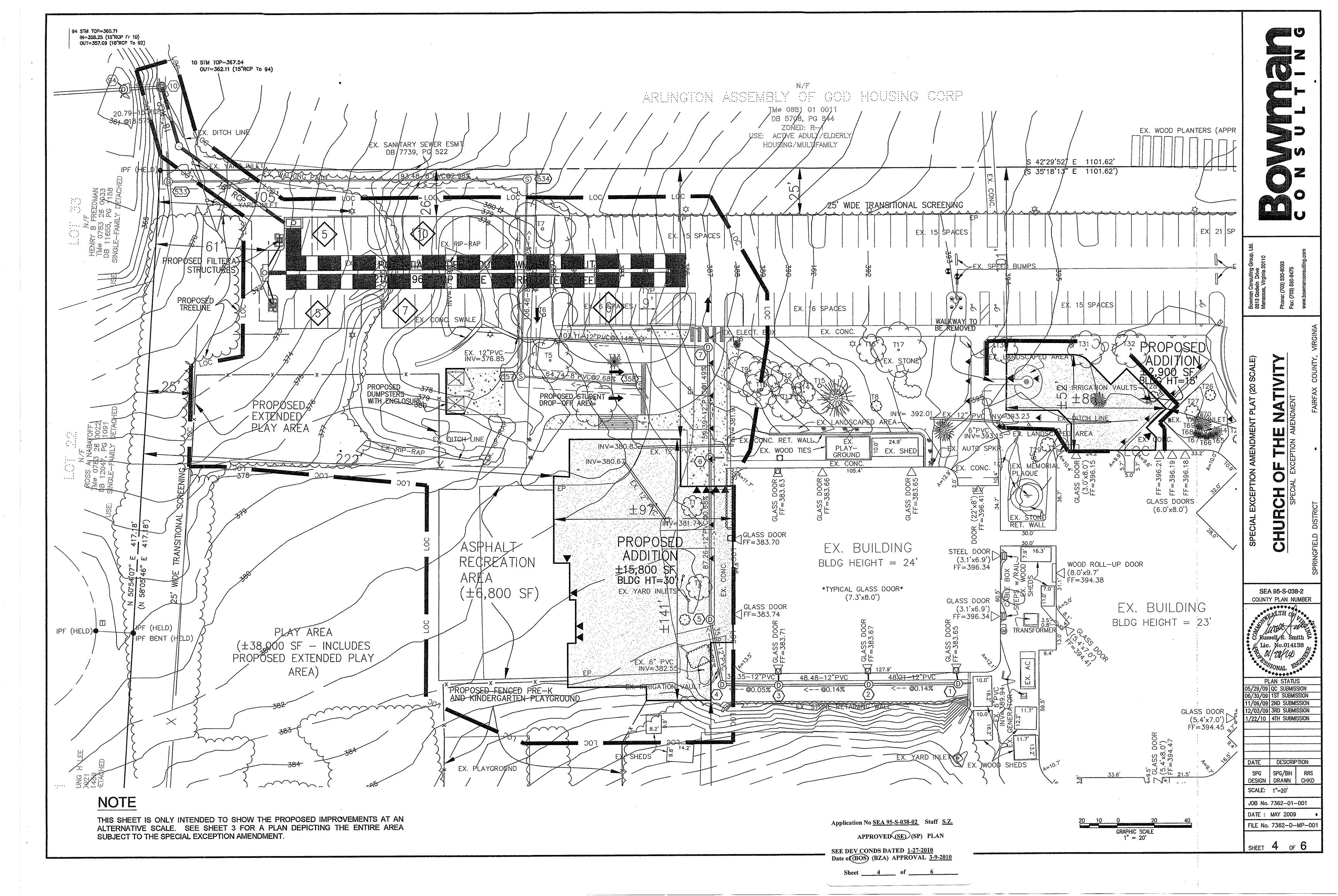
332 (NCLUDES 8 HANDICAPPED SPACES)

EX. BUILDING BLDG HEIGHT = 23'

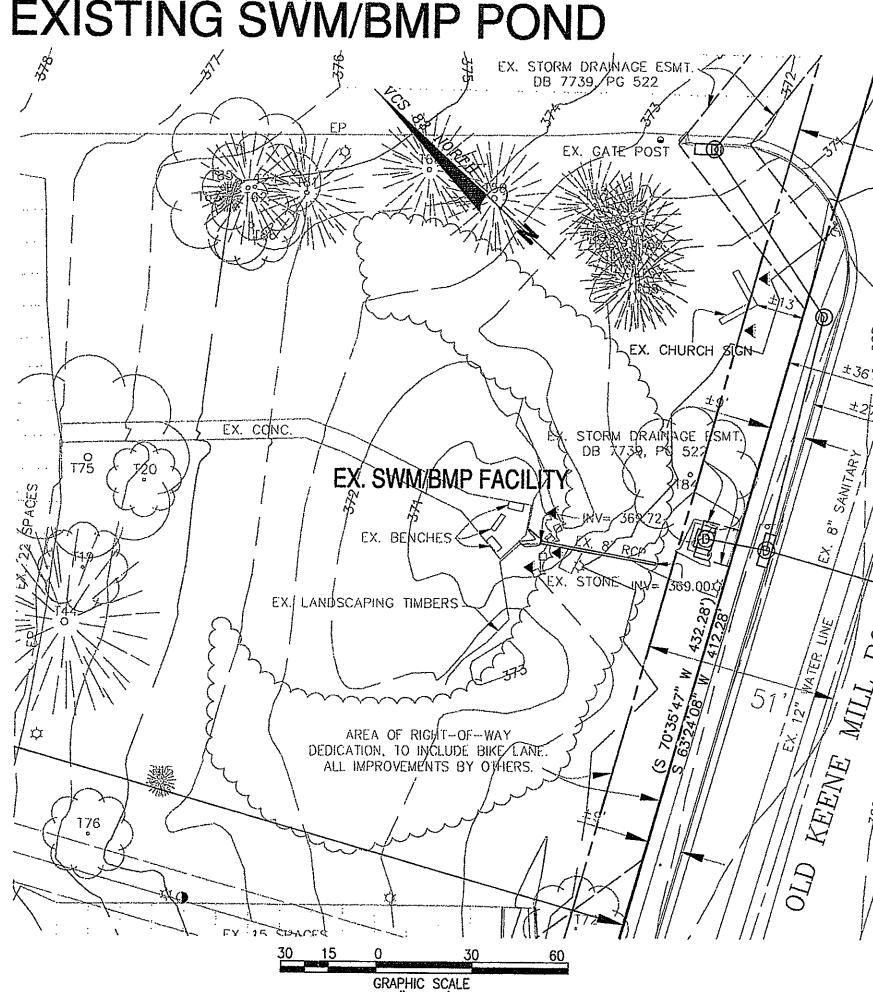
THE COST 14 A USE: OPEN SPACE

JIN WINTE

Date of (BOS) (BZA) APPROVAL 3-9-2010



# PROPOSED UNDERGROUND SWM/BMP FACILITY 14 STATE OF THE PROPOSED ST



#### MINIMUM STORMWATER INFORMATION FOR REZONING, SPECIAL EXCEPTION, SPECIAL PERMIT AND DEVELOPMENT PLAN APPLICATIONS

The following information is required to be shown or provided in all zoning applications, or a waiver request of the submission requirement with justification shall be attached. Note: Waivers will be acted upon separately. Failure to adequately address the required submission information may result in a delay in processing this application.

This information is required under the following Zoning Ordinance paragraphs:

Special Permits (8-011 2J & 2L)

Cluster Subdivision (9-615 1G & 1N)

Development Plans PRC District (16-302 3 & 4L)

PRC Plan (16-303 1E & 10)

FDP P Districts (except PRC) (16-502 1F & 1Q)

Amendments (18-202 10F & 10I)

1. Plat is at a minimum scale of 1"=50" (unless it is depicted on one sheet with a minimum scale of 1"=100").

2. A graphic depicting the stormwater management facility(ies) and limits of clearing and grading accommodate the stormwater management facility(ies), storm drainage pipe systems and outlet protection, pond spillways, access roads, site outfalls, energy dissipation devices, and stream stabilization measures as shown on Sheet

3. Provide:
Facility Name/ On-site area Off-site area Drainage Footprint Storage If pond, dan Type & No. served (acres) served (acres) area (acres) area (sf) Volume (cf) height (ft)

| Notice | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563 | 10,563

4. Onsite drainage channels, outfalls and pipe systems are shown on Sheet 4. Pond inlet and oulet pipe systems are shown on Sheet 4.

N/A 5. Maintenance access (road) to stormwater management facility(ies) are shown on Sheet \_\_\_\_.

Type of maintenance access road surface noted on the plat is \_\_\_\_\_ (asphalt, geoblock, gravel, etc.).

MA [ 6. Landscaping and tree preservation shown in and near the stormwater management facility is shown on Sheet \_\_\_\_\_.

7. A 'stormwater management narrative' which contains a description of how detention and best management practices requirements will be met is provided on Sheet \_\_\_\_\_.

8. A description of the existing conditions of each numbered site outfall extended downstream from the site to a point which is at least 100 times the site area or which has a drainage area of at least one square mile (640 acres) is provided on Sheet 5.

9. A description of how the outfall requirements, including contributing drainage areas of the Public Facilities Manual will be satisfied is provided on Sheet \_\_\_\_\_.

10. Existing topography with maximum contour intervals of two (2) feet and a note as to whether it is an air survey or field run is provided on Sheets \_\_\_\_\_\_.

₩A ☐11. A submission waiver is requested for \_\_\_\_\_

#### NOTES

1. SITE IS CURRENTLY SERVED BY PUBLIC SEWER AND WATER; AS WILL PROPOSED ADDITIONS. CAPACITY OF BOTH PUBLIC SEWER AND WATER IS ANTICIPATED TO BE ADEQUATE FOR THE SITE.

2. SITE IS CURRENTLY SERVED BY WASHINGTON GAS.

N/A 12. Stormwater management is not required because

3. THE PROPOSED ADDITIONS WILL BE FULLY SPRINKLERED IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND FIRE CODES.

4. SITE IMPROVEMENTS MAY BE CONSTRUCTED IN PHASES.

Application No SEA 95-S-038-02 Staff S.Z.

APPROVED (SE) (SP) PLAN

SEE DEV CONDS DATED 1-27-2010
Date of (BOS) (BZA) APPROVAL 3-9-2010

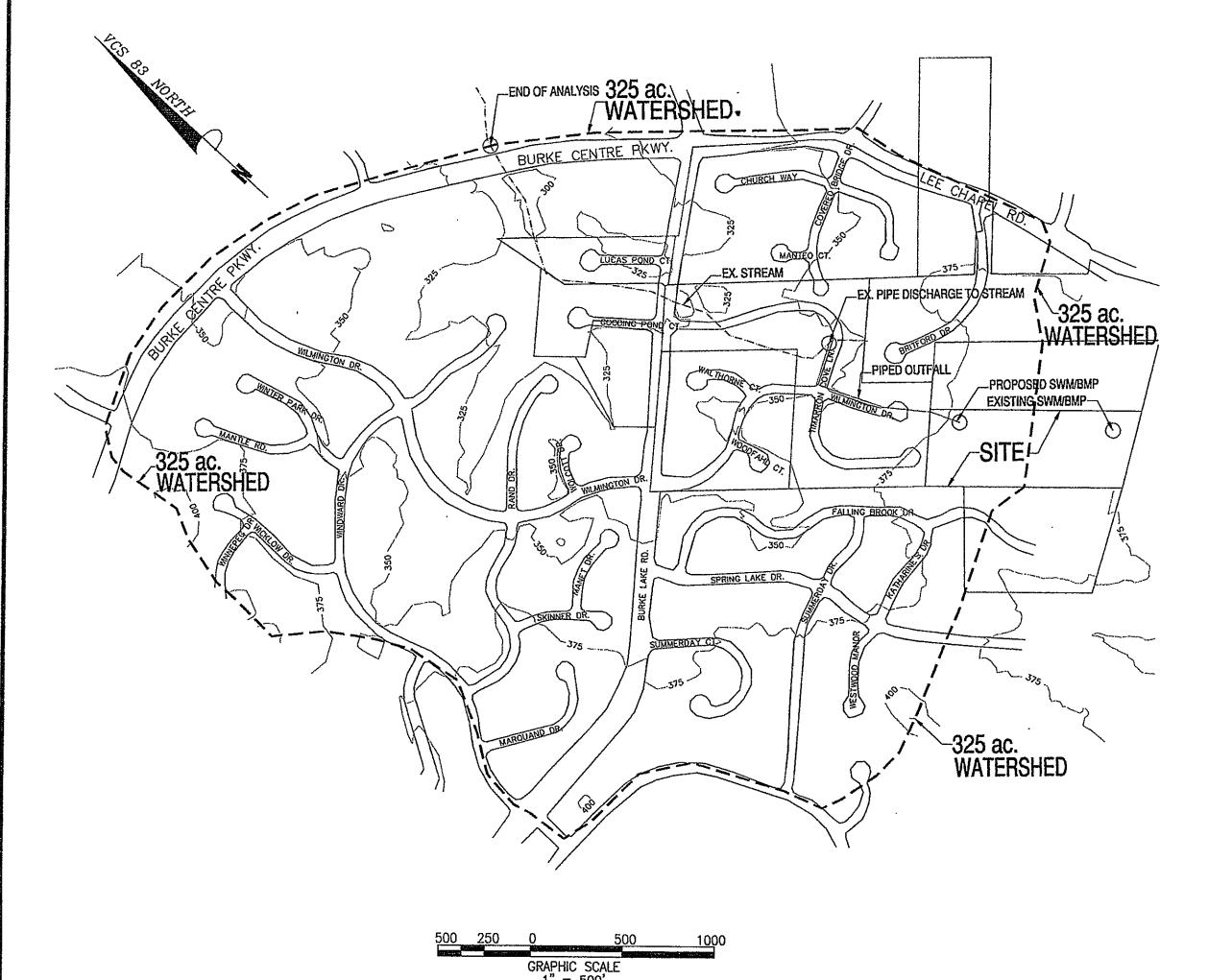
#### **Existing Outfall Condition**

The portion of the site that currently drains to the outfall point of this site is approximately 3.25 acres, therefore the existing outfall per PFM requirements must be analyzed until the total watershed is approximately 325 acres. As shown in the watershed drainage map on this sheet, the outfall for this facility will be approximately 1050' of existing pipe system to the existing stream adjacent to Timarron Cove Lane. From this discharge point, runoff is carried through an established stream with bed and bank for 2400' until it crosses under Burke Center Parkway. The existing offsite system consists of concrete underground pipes in good condition. The existing channel adjacent to Timarron Cove Lane shows no sign of erosion. The existing drainage area to this point will remain the same with this development. No offsite channel improvements will be required with this submission as outflow will be reduced and is less than 1

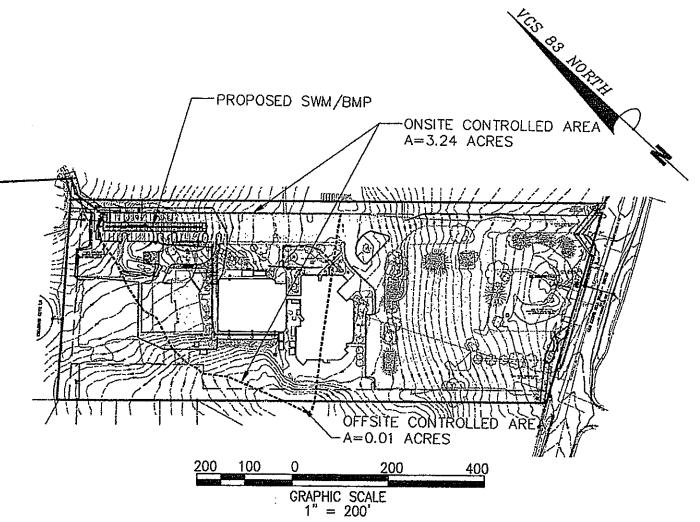
#### **Adequate Outfall Narrative**

The existing stormwater management pond released 0.9 cfs for a 10-year storm, down an open channel to an off-site inlet. This inlet is adequately sized to handle the outfall, and ties into the existing storm sewer system of the Timarron Cove subdivision. The proposed underground system will release 0.8 cfs for a 10-year storm, through an 18" reinforced concrete pipe that will connect into the off-site inlet. Therefore, the proposed redevelopment will result in a decrease in peak discharge to an existing public storm drainage system designed for a larger inflow. It is our engineering opinion that adequate outfall is achieved.

#### OVERALL WATERSHED MAP



#### DRAINAGE AREA MAP TO PROPOSED SWM/BMP



#### Stormwater Management/BMP Narrative

The purpose of this design is to provide stormwater management for the 2-year and 10-year design storms in order to release the increased runoff from the development at a peak rate below existing conditions through the use of an underground facility. The site currently has a stormwater management pond that treats approximately 2.72 acres that includes 1.26 acres of impervious area. The proposed underground facility will treat 3.25 acres, including 1.97 acres of impervious area. The proposed underground facility consists of two 96" corrugated steel pipes with lengths of 210' each, connected through manifolds with a 96"corrugated steel pipe. All design storms will be routed through the stormwater management control manhole. The stormwater management control manhole is a standard MH-2 manhole that has a metal weir bolted to the inside of the manhole walls with an orifice opening to control the outflow rates for the design storms. Preliminary sizing shows an approximate 10,500 cf of storage will be required in order to reduce proposed runoff below pre-development levels.

The outfall of the system is through a junction box that also serves as the access point to the system through the 96" pipe. An 18" pipe exits the junction box and connects into the existing storm sewer system of the Timarron Cove subdivision through a yard inlet.

Best Management Practices Requirements will be met with a combination of treatment by Filterra units for parking lot runoff, permanent conservation easements over forested buffer areas, and other types of treatment if necessary; to meet State and County requirements.

Phone: (703) 530-8093 Fax: (703) 530-8475 www.bowmanconsulting.com

ECIAL EXCEPTION AMENDMENT

SEA 95-S-038-2

COUNTY PLAN NUMBER

LTH

Russell R. Smith

PLAN STATUS
05/29/09 QC SUBMISSION
06/30/09 1ST SUBMISSION
11/06/09 2ND SUBMISSION
12/03/09 3RD SUBMISSION
1/22/10 4TH SUBMISSION

DATE DESCRIPTION

SPG SPG/BIH RRS
DESIGN DRAWN CHKD

SCALE: AS NOTED

JOB No. 7362-01-001

DATE: MAY 2009

FILE No. 7362-D-MP-001

SHEET 5 OF 6

## NOTES 1. THIS LANDSCA WITH FINAL SI' ARBORIST. FI ENGINEERING. 2. REPLANTING SCREENING AR TO OBTAIN A TO OBTAIN A TO THE SITE AF 4. TREE SELECTIC PUBLIC FACILIC COUNTY ARBOREM.

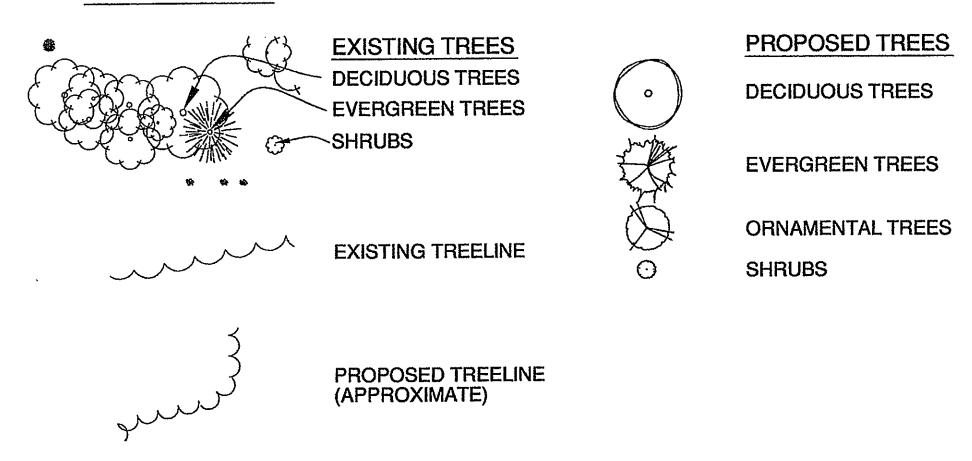
- 1. THIS LANDSCAPING PLAN IS CONCEPTUAL ONLY AND SUBJECT TO CHANGE WITH FINAL SITE PLAN AND IN COORDINATION WITH THE FAIRFAX COUNTY ARBORIST. FINALLY TREE SELECTION TO BE DETERMINED DURING FINAL ENGINEERING.
- 2. REPLANTING OF TREES WILL BE PERFORMED WHERE TRANSITIONAL SCREENING AREAS ARE IMPACTED BY THE PROPOSED DEVELOPMENT.
- 3. REPLANTING AND SUPPLMENTAL PLANTING OF TREES WILL BE PERFORMED TO OBTAIN A TEN-YEAR CANOPY AREA COMPROMISING THIRTY (30) PERCENT OF THE SITE AREA AS REQUIRED BY THE PUBLIC FACILITIES MANUAL.
- 4. TREE SELECTION AND PLANTING SHALL BE DONE IN ACCORDANCE WITH THE PUBLIC FACILITIES MANUAL AND IN CONSULTATION WITH THE FAIRFAX COUNTY ARBORIST.
- 5. SITE IMPROVEMENTS MAY BE CONSTRUCTED IN MULTIPLE PHASES.

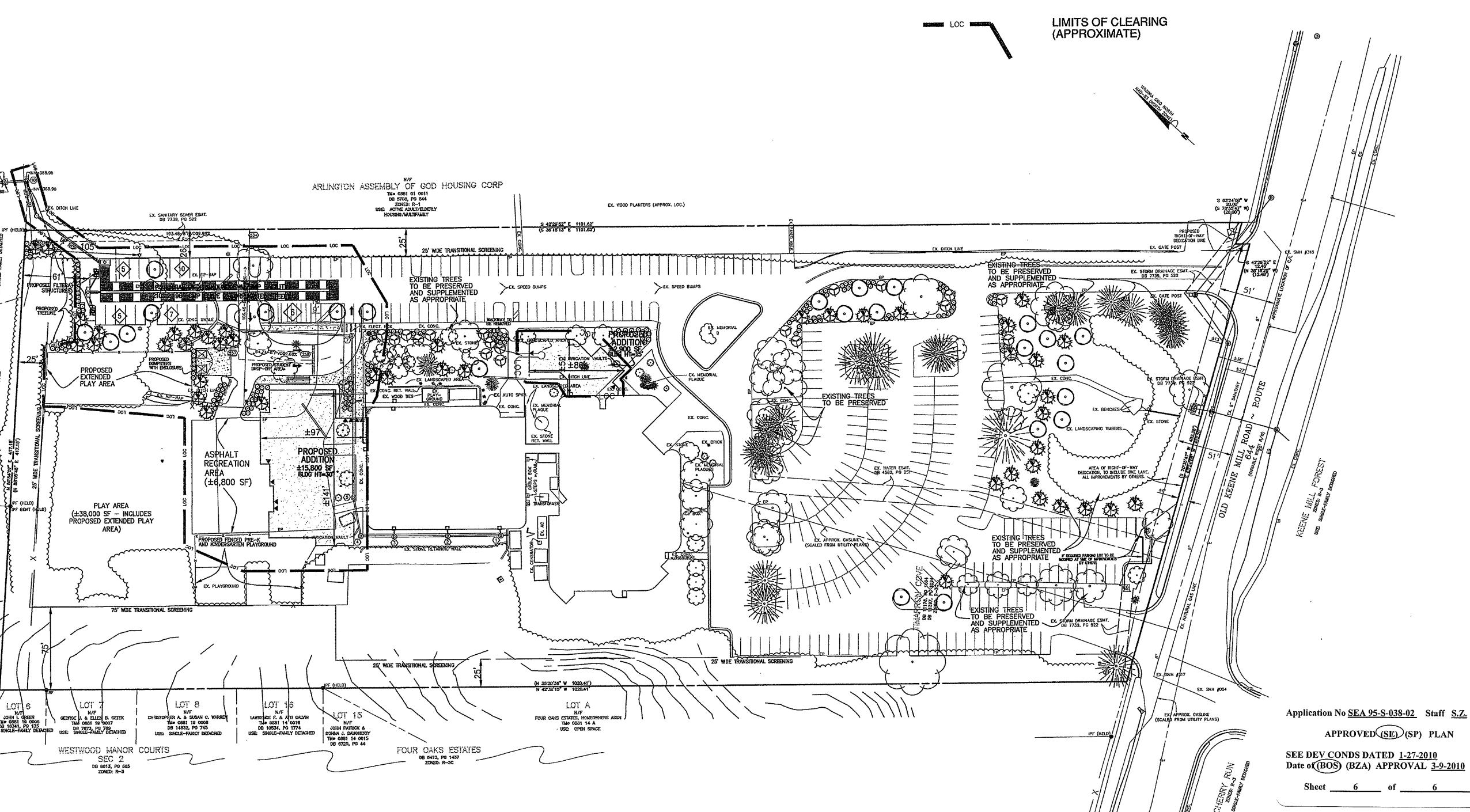
MARRON COV 08 1178, Po 1694 08 11397, Po 1094 2018D: R-30

CHARLES F. JR. A GILLIAN
HEAGY
TIM- CESI 13 CO17
DB 5835, PG 1069
USE: SINGLE-FAMILY DETACLED

SUMMERDAY DB 5425, PG 1048 ZONED: R-3







Manassas, Virginia 20110
Phone: (703) 530-8093
Fax: (703) 530-8475
www.bowmanconsulting.com

OF THE NATIVITY

L EXCEPTION AMENDMENT

SEA 95-S-038-2

COUNTY PLAN NUMBER

ALTH OF

Russell R. Smith

Lic. No.014138

PLAN STATUS
05/29/09 QC SUBMISSION
06/30/09 1ST SUBMISSION
11/06/09 2ND SUBMISSION
12/03/09 3RD SUBMISSION
1/22/10 4TH SUBMISSION

DATE DESCRIPTION

SPG SPG/BIH RRS

SPG SPG/BIH RRS
DESIGN DRAWN CHKD

SCALE: 1"=50'

JOB No. 7362-01-001

DATE: MAY 2009

FILE No. 7362-D-MP-001

SHEET 6 OF 6